

Seqlisting-38-21(52288)B.txt  
SEQUENCE LISTING

<110> Hillyard, Jeanna  
Roberts, James  
Ye, Minwei

<120> Cotton Event PV-GHBK04 (757) and Compositions and Methods for  
Detection Thereof

<130> 38-21 (52288)B

<150> US60/249,757

<151> 2000-11-17

<160> 21

<170> PatentIn version 3.0

<210> 1

<211> 20

<212> DNA

<213> artificial sequence

<220>

<221> misc\_feature

<222> (1)..(20)

<400> 1

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<210> 2

<211> 20

<212> DNA

<213> artificial sequence

<220>

<221> misc\_feature

<222> (1)..(20)

<400> 2

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20

<210> 3

<211> 20

<212> DNA

<213> Gossypium hirsutum

<220>

<221> misc\_feature

<222> (1)..(20)

<400> 3

tgttctgtgg aaaaggaagg

20

<210> 4

<211> 20

<212> DNA

<213> Gossypium hirsutum

<220>

<221> misc\_feature

## Seqlisting-38-21(52288)B.txt

&lt;222&gt; (1)..(20)

&lt;400&gt; 4

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20

&lt;210&gt; 5

&lt;211&gt; 138

&lt;212&gt; DNA

&lt;213&gt; artificial sequence

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(138)

&lt;400&gt; 5

acactgatag tttaaactga aggcgggaaa cgacaatctg atcccagctt gcatgcctgc 60

agggtcaattc aatattgtgg caggacattg ctacatgata cctcttagaa ttgttttagac 120

ttcagatcga tcttgtca 138

&lt;210&gt; 6

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Gossypium hirsutum

&lt;220&gt;

&lt;221&gt; Unsure

&lt;222&gt; (1)..(767)

&lt;223&gt; 5' cotton (Gossypium hirsutum) genome sequence

&lt;400&gt; 6

gtcccggggg cttatcctgt attcatttgc acccacataa acagccaaat taaccaaacc 60

catattcaac tgaaactccc aaagccattc ctacttttagc ttttcaccca ctaactcaaa 120

agaaaacact cacctagctt ctttgctttt tcttttggat tgttttagat ctacaaaaag 180

atgattcaag aactccttgg aggttcttct tgcttaaact ttggagggga gaggaagatc 240

tccatcaatg gaagcatttt ggaaggaacc cccacttctt ctccatcacc atcatcttct 300

tcttcttcgg cgacgacttc atcgaccact aattcatcga atccggagaa tcatcaccag 360

aatttgaggt gcccaggtg tgattcctcc aacacaaagt tctgctatta caacaactac 420

aacctcactc agcctcgtca cttttgcaag acttgccgtc ggtattggac caaaggagga 480

gctctcagaa acgttcctat tgggtggtggg tgtaggaaaa acaaaagcac tactggtggt 540

tcaacatctc tggggaaatc aacttcttcc aagatgaaaa cagtagtttc tgaaattgga 600

agatctgggt tcgatcatga gcttcagtct actccaatc tttggacttc agcggcccag 660

acttcccata ttctatcaa tctaacctca atgagagcta ccctaaacct taaccctaac 720

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&lt;210&gt; 7

&lt;211&gt; 206

## Seqlisting-38-21(52288)B.txt

<212> DNA  
 <213> artificial sequence  
  
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 <221> misc\_feature  
 <222> (1)..(206)  
  
 <400> 7  
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 tcttttttggga atgctgctcc gtcgtcaggc tttccgacgt ttgggtgggtt gaacagaagt 120  
 cattatcgca cggaatgcc agcactcccg aggggaaccc tgtggttggc atgcacatac 180  
 aaatggacga acggataaac cctttc 206

<210> 8  
 <211> 307  
 <212> DNA  
 <213> *Gossypium hirsutum*

<220>  
 <221> Unsure  
 <222> (1)..(307)  
 <223> 3' cotton (*Gossypium hirsutum*) genome sequence

<400> 8  
 tggaaaaata atcaacacca cgctcaacaa caacagaata ataatgggtt cttgttaggt 60  
 gaagttcaaa acacaggtat tcaagaactg tatcaaaggc tcaaatacatc atcaagttat 120  
 tactctgata cttcagcagt aattctaagc aatgtcgctt cttcttcac aacatccatt 180  
 ttggagtcag ctccagttgc tgggggagaa ttgggttact ggaatccggc attttcatca 240  
 tcgtggtctg atcttccaac aactaatggt gcatatcctt aaaataaccc tttacctttc 300  
 gttaaat 307

<210> 9  
 <211> 26  
 <212> DNA  
 <213> artificial sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(26)  
 <223> 5' cotton (*Gossypium hirsutum*) genome PCR primer

<400> 9  
 gagagagata ggcactaaag taagca 26

<210> 10  
 <211> 28  
 <212> DNA  
 <213> artificial sequence

<220>  
 <221> misc\_feature

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<222> (1)..(28)  
<223> 5' insert PCR primer

<400> 10  
ttagacaaat tgtcacgggc taccagaa

28

<210> 11  
<211> 24  
<212> DNA  
<213> artificial sequence

<220>  
<221> misc\_feature  
<222> (1)..(24)  
<223> 3' insert PCR primer

<400> 11  
ttccaacga tcaaggcgag ttac

24

<210> 12  
<211> 27  
<212> DNA  
<213> artificial sequence

<220>  
<221> misc\_feature  
<222> (1)..(27)  
<223> 3' cotton (Gossypium hirsutum) genome PCR primer

<400> 12  
ttgatgcact tacgaaagaa gaaccga

27

<210> 13  
<211> 905  
<212> DNA  
<213> artificial sequence

<220>  
<221> misc\_feature  
<222> (1)..(905)  
<223> 5' cotton (Gossypium hirsutum) genome + insert sequence

<400> 13  
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60

catattcaac tgaaactccc aaagccattc ctacttttagc ttttcaccca ctaactcaaa

120

agaaaacact cacctagctt ctttgctttt tcttttggat tgttttagat ctacaaaaag

180

atgattcaag aactccttgg aggttcttct tgcttaaact ttggagggga gaggaagatc

240

tccatcaatg gaagcatttt ggaaggaacc cccacttctt ctccatcacc atcatcttct

300

tcttcttcgg cgacgacttc atcgaccact aattcatcga atccggagaa tcatcaccag

360

aatttgaggt gccccaggtg tgattcctcc aacacaaagt tctgctatta caacaactac

420

## Seqlisting-38-21(52288)B.txt

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aacctcactc agcctcgtca cttttgcaag acttgccgtc ggtattggac caaaggagga 480
gctctcagaa acgttcctat tgggtggtggg tgtaggaaaa acaaaagcac tactggtggt 540
tcaacatctc tggggaaatc aacttcttcc aagatgaaaa cagtagtttc tgaaattgga 600
agatctgggt tcgatcatga gcttcagtct actccaattc tttggacttc agcggcccag 660
acttcccatc ttctatccaa tctaacctca atgagagcta ccctaaacct taaccctaac 720
acattgtcta accctgttag tattaaggaa gaagtgaagt tgcttggaca ctgatagttt 780
aaactgaagg cgggaaacga caatctgata ccagcttgca tgcctgcagg tcaattcaat 840
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tgtca 905

```

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<210> 14
<211> 513
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(513)
<223> 3' cotton (Gossypium hirsutum) genome + insert sequence

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```

<400> 14
tgagggatca agccacagca gccactcga cttctagcc gaccagacg agccaaggga 60
tctttttgga atgctgctcc gtcgtcaggc tttccgacgt ttgggtggtt gaacagaagt 120
cattatcgca cggaatgcca agcactcccg aggggaacct tgtggttggc atgcacatac 180
aaatggacga acggataaac cttttctgga aaaataatca acaccacgct caacaacaac 240
agaataataa tgggttcctt gtaggtgaag ttcaaaacac aggtattcaa gaactgtatc 300
aaaggctcaa atcatcatca agttattact ctgatacttc agcagtaatt ctaagcaatg 360
tcgcttcttc ttcatcaaca tccattttgg agtcagctcc agttgctggg ggagaattgg 420
gttactggaa tccggcattt tcatcatcgt ggtctgatct tccaacaact aatggtgcat 480
atccttaaaa taacccttta cctttcgttt aat 513

```

```

<210> 15
<211> 4973
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(4973)
<223> sequence of 5' flank to full-length cry1Ac coding region

```

```

<400> 15
cggcccagac ttcccatctt ctatccaatc taacctcaat gagagctacc ctaaacccta 60

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## Seqlisting-38-21(52288)B.txt

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gatagtttaa actgaaggcg ggaaacgaca atctgatccc agcttgcacg cctgcaggtc	180
aattcaatat tgtggcagga cattgctaca tgatacctct tagaattggt tagacttcag	240
atcgatcttg tcagtctgaa agacccaaaa acaaattgcaa tttcttttct ggtagaccgt	300
gacaatttgt ctaagatgta tctgatttaa tgccttttgt atataatata ctcatctaat	360
ctagttaatt tagcttcaga gtaaattact tcagcatatt tatacgtgcc aagtgccaac	420
catatcaaat tagctaagca gacagttgaa gtacacaaaa caaagcatc atatgctgat	480
ttattttatc atagatggag ctcaagtcac agttaaatag cccgatactt tcctcgtcga	540
ctatgagcta ttacagcata catttttagta ctacatactt attcagtaaa aagccctcaa	600
aattgaagac aaaggacggg atccccgggt accgagctcg aattcaggcc tctagatctc	660
attattcctc catcaagaga agctccacgc tgtccacgat gaagggtccc tcggtttcac	720
cgatctcgat ccacactttg tcgggtctcag gaaagtactc aagctccttg gtaacatagc	780
caactggaag tgggtgtgag tccctgtaac ctctgttgaa ctgcgaaggg ttctcacgtc	840
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tgtagtcgtt gcaagtaacg gtgtgtgtgg gatagatttc ttctcgcacg cagttggaga	1020
acttaagctc gtccgtgttg ttctcgcacg cgtggatggg caagcaacc tcaccgtatc	1080
cctccttgta agcggtcaca cggagaatgt agcctctacc tggacagact ctaacctctt	1140
gggacacttc agcttccac tcaggcacaa ccaggacgga acgctgattg ttctgttcc	1200
ccacgtccac atgaccttc acattccagc agctgaggcc attgttgaag tcaccgttct	1260
tgatgacgtt tctggcatcg tacaaggaga atgcggtaaa gatacgtccc tcaagttcct	1320
cgaagatggc agcgttcaca ccagggatca cggacaactc aggcaagtaa gcctcacgaa	1380
tgctgtgcac acgtttgtct gcggcgtgga tcatggcgat gttgggtgtcg gcttgcaact	1440
gatcatattg ggagttcacg aacaaagcat ccacggactc tttggcctcc ttgtaaacga	1500
tgtagatttc ccattcgagt ttctcacggt tgtccctcca cttcttctct gctctcttca	1560
cacgagcgag agcttcaccg accaatgggt tctcttcgag aaactcaagg ttgccaagtc	1620
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taggctctcc acacttccca atgggagatt gggcagaaag tggccagagg gaaccagtac	1860
ctgggacatt cagggtctcg tgcttggcat tgtacctgat cgagtagatt tcaaggctct	1920
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## Seqlisting-38-21(52288)B.txt

cgatcttctg gtacaagtag gtagggtagc actcgtcgaa agttccggag aggggtgacgt 2040  
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 cgctgagacg cttggcgtgt ttaactttct cggagagttc acgcttctcg tcgaggcaga 2220  
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 aaggccatcg ttgaagatgc ctctgccgac agtgggtccca aagatggacc cccaccacg 3060  
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 ggcaaagggt gggattcgat gctgcaacca tcaatagccg ttacaacgac ctactagggc 3840  
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## Seqlisting-38-21(52288)B.txt

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ggggtcctga ttctagagat tggattagat acaaccagtt caggagagaa ttgaccctca 3960
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cagtgtccca acttaccaga gaaatctata ctaaccagtt tcttgagaac ttcgacggta 4080
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accagatcat ggccctctcca gttggattca gcggggcccg gtttaccttt cctctctatg 4260
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catcatatgc tgatttattt attcatagat ggagctcaag tcatagttaa atagcccgat 4740
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taaaaagccc tcaaaattga agacaaagga cgggatcccc ggggtaccgag ctggaattca 4860
ggcctctaga tctcattatt cctccatcaa gagaagctcc acgctgtcca cgatgaaggt 4920
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```

```

<210> 16
<211> 19
<212> DNA
<213> artificial sequence

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<220>
<221> misc_feature
<222> (1)..(19)
<223> 5' primer to 5' flanking sequence of SEQ ID NO: 15 from 8 to 26;

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<400> 16
gacttcccat cttctatcc 19

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```

<210> 17
<211> 19
<212> DNA
<213> artificial sequence

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<220>
<221> misc_feature
<222> (1)..(19)
<223> 3' primer to partial e35S promoter of SEQ ID NO: 15 from 3154 to 3136

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<400> 17  
 attgtgcgtc atcccttac 19

<210> 18  
 <211> 22  
 <212> DNA  
 <213> artificial sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(22)  
 <223> 5'primer to partial 3' cry1Ac sequence of SEQ ID NO: 15 from 2581 to 2603

<400> 18  
 gaataggggt cacagaagca ta 22

<210> 19  
 <211> 20  
 <212> DNA  
 <213> artificial sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(20)  
 <223> 3'primer to partial 5' cry1Ac sequence of SEQ ID NO: 15 from 3455 to 3435

<400> 19  
 ggaccaaaga tacccagat 20

<210> 20  
 <211> 19  
 <212> DNA  
 <213> artifical sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(19)  
 <223> 5'primer to partial e35S promoter of SEQ ID NO: 15 from 2993 to 3011

<400> 20  
 ataaaggaaa ggccatcgt 19

<210> 21  
 <211> 25  
 <212> DNA  
 <213> artificial sequence

<220>  
 <221> misc\_feature  
 <222> (1)..(25)  
 <223> 3'primer to full-length cry1Ac sequence of SEQ ID NO: 15 from 4973 to 4949

<400> 21

25

[illegible]